

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A system comprising:
a plurality of mobile stations;
at least one packet data network; and
a wireless access integrated node (WAIN) coupled to the plurality of mobile stations via a radio interface and coupled to the at least one packet data network via a network interface to provide an intermediating wired and/or wireless dedicated broadband connection between the plurality of mobile stations and the at least one packet data network, wherein the dedicated broadband connection implements a simplified protocol structure eliminating unnecessary intermediate protocol layers, wherein the WAIN is further to establish General Packet Radio Service (GPRS) communication between the plurality of mobile stations via a single interface, the single interface including the radio interface, the WAIN having a control module to control GPRS signaling and data transfer between the plurality of mobile stations.
2. (Previously Presented) The system of claim 1, wherein the packet data network comprises the Internet.
3. (Previously Presented) The system of claim 1, wherein the packet data network comprises an intranet.
4. (Currently Amended) The system of claim 3, wherein ~~a content server is attached to the intranet~~ is coupled to a content server.

5. (Previously Presented) The system of claim 75, wherein the plurality of mobile data transmission modules comprises a Packet Data Convergence Protocol (PDCP) module.
6. (Previously Presented) The system of claim 75, wherein the plurality of mobile data transmission modules comprises a Radio Link Control / Medium Access Control (RLC/MAC) module.
7. (Previously Presented) The system of claim 75, wherein the plurality of mobile data transmission modules comprises a Transceiver (TRX) module.
8. (Previously Presented) The system of claim 75, wherein the plurality of signaling modules comprises Radio Resource Management.
9. (Currently Amended) The system of claim 75, wherein the plurality of signaling modules comprises ~~General Packet Radio Service (GPRS)~~ GPRS Mobility Management.
10. (Previously Presented) The system of claim 75, wherein the plurality of signaling modules comprises Session Management.
11. (Previously Presented) The system of claim 75, wherein the plurality of interfaces comprises a voice interface.
12. (Previously Presented) The system of claim 75, wherein the plurality of interfaces comprises a local information system interface.
13. (Previously Presented) The system of claim 75, wherein the plurality of interfaces comprises an appliance control interface.
14. (Previously Presented) The system of claim 75, wherein the plurality of interfaces comprises an intranet gateway.

15. (Previously Presented) The system of claim 75, wherein the plurality of ports comprises an RJ11 port for a fixed wire telephone connection.
16. (Previously Presented) The system of claim 75, wherein the system interconnected with the WAIN comprises a local information system.
17. (Previously Presented) The system of claim 16, wherein the WAIN is to remotely synchronize a personal digital assistant with its host program on the local information system.
18. (Previously Presented) The system of claim 16, wherein the WAIN further comprises voice recognition capability to audibly replay service request commands from the mobile station to the local information system.
19. (Previously Presented) The system of claim 16, wherein the WAIN further comprises text-to-speech capability to audibly replay information from the local information service to the mobile station.
20. (Cancelled)
21. (Previously Presented) The system of claim 1, wherein the WAIN further comprises voice recognition capability to audibly replay remote control commands from the plurality of mobile stations to an application command system.
22. (Previously Presented) The system of claim 21, wherein the WAIN further comprises text-to-speech capability to audibly replay an appliance status report delivered from the appliance control system to the plurality of mobile stations.
23. (Previously Presented) The system of claim 1, wherein the WAIN further comprises a wireless data controller.

24. (Previously Presented) The system of claim 1, wherein the radio interface comprises a GPRS radio interface.
25. (Previously Presented) The system of claim 1, wherein the network interface comprises an Internet Protocol (IP) interface.
26. (Previously Presented) The system of claim 1, further comprising a user to obtain a temporary subscription to the WAIN through a dynamic registration and cancellation process, wherein a secret subscription identity of a mobile station of the user is linked with an equipment identity of the mobile station of the user.
27. (Previously Presented) The system of claim 75, wherein the plurality of mobile data transmission modules are to modulate data packets.
28. (Previously Presented) The system of claim 75, wherein the plurality of mobile data transmission modules are to compress data packets.
29. (Previously Presented) The system of claim 75, wherein the plurality of mobile data transmission modules are to encrypt data packets.
30. (Previously Presented) The system of claim 75, wherein the plurality of mobile data transmission modules are to multiplex data packets.
31. (Previously Presented) The system of claim 75, wherein the plurality of mobile data transmission modules are to correct errors in data packets.
32. (Previously Presented) The system of claim 75, wherein the plurality of mobile data transmission modules are to segment data packets.
33. (Previously Presented) The system of claim 75, wherein the plurality of mobile data transmission modules are to control sequence of data packets.

34. (Previously Presented) The system of claim 1, wherein the WAIN is further to support mobile stations roaming between a local WAIN environment and a public mobile network.
35. (Cancelled)
36. (Previously Presented) The system of claim 1, wherein the WAIN is further to provide wireless data services in a community service area located within cells of a public network when the WAIN is clustered with other WAIN systems.
37. (Previously Presented) The system of claim 1, wherein the WAIN supports mobile stations roaming between different WAIN systems.
38. (Previously Presented) The system of claim 1, wherein the WAIN is further to configure the WAIN as a network node where no specified system parameters are present.

Claims 39-74 (Cancelled)

75. (Previously Presented) The system of claim 1, wherein the WAIN comprises:
- a plurality of mobile data transmission modules and signaling modules for sending, processing, and receiving data packets,
 - a plurality of interfaces and ports for sending messages to and receiving messages from at least one packet data network, systems, and mobile stations interconnected with the WAIN,
 - a database containing subscription, operating, and charging information for the plurality of mobile stations attached to the WAIN, and
 - a main controller to collect charging data and coordinate and control one or more of the mobile data transmission modules, signaling modules, interfaces, and databases.